Map of parcels at 31 kft on 04070622 influenced by convection 0.0 to 2.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04070622 2.0 Days Shoe.C 0.1 0.5 0.0 NASA/ARC **PSL** Last Image Used is 0407062145 1008 Trajectories

Map of parcels at 31 kft on 04070622 influenced by convection 2.5 to 5.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04070622 5.0 3.0 2.5 NASA/ARC **PSL** Last Image Used is 0407062145 1008 Trajectories

Map of parcels at 31 kft on 04070622 influenced by convection 5.0 to 7.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04070622 7.5 7.0 Convection 6.5 Days Since (9 NASA/ARC **PSL** Last Image Used is 0407062145 1008 Trajectories

Map of parcels at 31 kft on 04070622 influenced by convection 7.5 to 10.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04070622 10.0 Days Since 7.5 NASA/ARC **PSL** Last Image Used is 0407062145 1008 Trajectories